

## SEQUENCE LISTING

- 5 SEQ ID NO: 1 is primate GPR2 nucleotide sequence.  
SEQ ID NO: 2 is primate GPR2 amino acid sequence.  
SEQ ID NO: 3 is rodent GPR2 nucleotide sequence.  
SEQ ID NO: 4 is rodent GPR2 amino acid sequence.  
SEQ ID NO: 5 is primate Vic nucleotide sequence.  
10 SEQ ID NO: 6 is primate Vic amino acid sequence.  
SEQ ID NO: 7 is alternative primate Vic nucleotide sequence.  
SEQ ID NO: 8 is alternative primate Vic amino acid sequence.  
SEQ ID NO: 9 is rodent Vic nucleotide sequence.  
SEQ ID NO: 10 is rodent Vic amino acid sequence.  
15 SEQ ID NO: 11 is primate CTACK nucleotide sequence.  
SEQ ID NO: 12 is primate CTACK amino acid sequence.  
SEQ ID NO: 13 is rodent CTACK nucleotide sequence.  
SEQ ID NO: 14 is rodent CTACK amino acid sequence.  
SEQ ID NO: 15 provides a primate actin PCR primer sequence.  
20 SEQ ID NO: 16 provides a primate actin PCR primer sequence.

<110> Wang, Wei  
Oldham, Elizabeth R.  
Soto, Hortensia  
25 Liu, Ying  
Hudak, Susan A.  
Homey, Bernhard  
Morales, Janine M.  
Kellermann, Sirid-Aimee  
30 McEvoy, Leslie M.  
Bowman, Edward P.  
Zlotnik, Albert

<120> Chemokine and Receptor Uses; Compositions; Methods

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| 20 |     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
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| 25 | Ala | Leu | Pro | Ala | Gly | Gln | Arg | Pro | Ser | Thr | Pro | Ser | Arg | Ala | His | Leu |  |
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    Val Cys His Arg Lys Lys His His Gly Lys Arg Asn Ser Asn Arg Ala
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|    | Arg Glu Arg Ser Pro Met Ser Pro Thr Ser Gln Arg Leu Ser Leu Glu |     |
|    | 35 40 45  |     |
| 15 | gcc ccc agc ctc cca ctg aga agc tgg cat ccg tgg aac aag act aag | 192 |
|    | Ala Pro Ser Leu Pro Leu Arg Ser Trp His Pro Trp Asn Lys Thr Lys |     |
|    | 50 55 60  |     |
| 20 | cag aag caa gaa gcc ttg cct ctg ccc tcc agc act agc tgc tgt act | 240 |
|    | Gln Lys Gln Glu Ala Leu Pro Leu Pro Ser Ser Thr Ser Cys Cys Thr |     |
|    | 65 70 75 80   |     |
| 25 | cag ctc tat aga cag cca ctc cca agc agg ctg ctg agg agg att gtc | 288 |
|    | Gln Leu Tyr Arg Gln Pro Leu Pro Ser Arg Leu Leu Arg Arg Ile Val |     |
|    | 85 90 95  |     |
| 30 | cac atg gaa ctg cag gag gcc gat ggg gac tgt cac ctc cag gct gtc | 336 |
|    | His Met Glu Leu Gln Glu Ala Asp Gly Asp Cys His Leu Gln Ala Val |     |
|    | 100 105 110   |     |
| 35 | gtg ctt cac ctg gct cgg cgc agt gtc tgt gtt cat ccc cag aac cgc | 384 |
|    | Val Leu His Leu Ala Arg Arg Ser Val Cys Val His Pro Gln Asn Arg |     |
|    | 115 120 125   |     |
| 40 | agc ctg gct cgg tgg tta gaa cgc caa ggg aaa agg ctc caa ggg act | 432 |
|    | Ser Leu Ala Arg Trp Leu Glu Arg Gln Gly Lys Arg Leu Gln Gly Thr |     |
|    | 130 135 140   |     |
| 45 | gta ccc agt tta aat ctg gta cta caa aag aaa atg tac tca aac ccc | 480 |
|    | Val Pro Ser Leu Asn Leu Val Leu Gln Lys Lys Met Tyr Ser Asn Pro |     |
|    | 145 150 155 160   |     |
| 50 | caa cag caa aac taataaagca acattagacg acaaaaaaaaa aaaaaaaaaa    | 532 |
|    | Gln Gln Gln Asn   |     |
| 55 | aaaaaaaaa a   | 543 |
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|    | Ile Tyr Trp Gly Cys Phe Tyr Phe Phe Pro Trp Leu Arg Met Trp Arg |     |
|    | 20 25 30  |     |

Arg Glu Arg Ser Pro Met Ser Pro Thr Ser Gln Arg Leu Ser Leu Glu  
                   35                                  40                                  45

5 Ala Pro Ser Leu Pro Leu Arg Ser Trp His Pro Trp Asn Lys Thr Lys  
                   50                                  55                                  60

Gln Lys Gln Glu Ala Leu Pro Leu Pro Ser Ser Thr Ser Cys Cys Thr  
           65                                  70                                  75                                  80

10 Gln Leu Tyr Arg Gln Pro Leu Pro Ser Arg Leu Leu Arg Arg Ile Val  
                                   85                                  90                                  95

15 His Met Glu Leu Gln Glu Ala Asp Gly Asp Cys His Leu Gln Ala Val  
                                   100                                  105                                  110

Val Leu His Leu Ala Arg Arg Ser Val Cys Val His Pro Gln Asn Arg  
                   115                                  120                                  125

20 Ser Leu Ala Arg Trp Leu Glu Arg Gln Gly Lys Arg Leu Gln Gly Thr  
                   130                                  135                                  140

Val Pro Ser Leu Asn Leu Val Leu Gln Lys Lys Met Tyr Ser Asn Pro  
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 50 Phe Gln Thr Ser Glu Ala Ile Leu Pro Met Ala Ser Ser Cys Cys Thr  
                   -5                                  -1 1                                  5                                  10

      gag gtg tct cat cat gtt tcc gga aga ctt ctg gaa aga gtg agt tca 144  
 55 Glu Val Ser His His Val Ser Gly Arg Leu Leu Glu Arg Val Ser Ser  
                                   15                                  20                                  25

      tgc agc atc cag aga gct gac ggg gac tgc gac ctg gct gct gtc atc 192  
       Cys Ser Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu Ala Ala Val Ile  
                   30                                  35                                  40

ctt cat gtt aaa cgt aga aga atc tgc atc agc ccg cac aat cgt act 240  
 Leu His Val Lys Arg Arg Arg Ile Cys Ile Ser Pro His Asn Arg Thr  
 45 50 55  
 5 ttg aag cag tgg atg aga gcc tca gag gta aag aag aat ggc aga gaa 288  
 Leu Lys Gln Trp Met Arg Ala Ser Glu Val Lys Lys Asn Gly Arg Glu  
 60 65 70  
 10 aac gtc tgt tct ggg aaa aaa caa ccc agc agg aag gac aga aaa ggg 336  
 Asn Val Cys Ser Gly Lys Lys Gln Pro Ser Arg Lys Asp Arg Lys Gly  
 75 80 85 90  
 15 cac act acg aga aag cac aga aca cgt gga aca cac agg cac gaa gcc 384  
 His Thr Thr Arg Lys His Arg Thr Arg Gly Thr His Arg His Glu Ala  
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 35 Glu Val Ser His His Val Ser Gly Arg Leu Leu Glu Arg Val Ser Ser  
 15 20 25  
 Cys Ser Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu Ala Ala Val Ile  
 30 35 40  
 40 Leu His Val Lys Arg Arg Arg Ile Cys Ile Ser Pro His Asn Arg Thr  
 45 50 55  
 Leu Lys Gln Trp Met Arg Ala Ser Glu Val Lys Lys Asn Gly Arg Glu  
 60 65 70  
 45 Asn Val Cys Ser Gly Lys Lys Gln Pro Ser Arg Lys Asp Arg Lys Gly  
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15 ctg agc cca gac cct aca gca gca ttc cta ctg cca ccc agc act gcc 96
Leu Ser Pro Asp Pro Thr Ala Ala Phe Leu Leu Pro Pro Ser Thr Ala
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20 tgc tgt act cag ctc tac cga aag cca ctc tca gac aag cta ctg agg 144
Cys Cys Thr Gln Leu Tyr Arg Lys Pro Leu Ser Asp Lys Leu Leu Arg
10 15 20

25 aag gtc atc cag gtg gaa ctg cag gag gct gac ggg gac tgt cac ctc 192
Lys Val Ile Gln Val Glu Leu Gln Glu Ala Asp Gly Asp Cys His Leu
25 30 35 40

30 cag gct ttc gtg ctt cac ctg gct caa cgc agc atc tgc atc cac ccc 240
Gln Ala Phe Val Leu His Leu Ala Gln Arg Ser Ile Cys Ile His Pro
45 50 55

35 cag aac ccc agc ctg tca cag tgg ttt gag cac caa gag aga aag ctc 288
Gln Asn Pro Ser Leu Ser Gln Trp Phe Glu His Gln Glu Arg Lys Leu
60 65 70

40 cat ggg act ctg ccc aag ctg aat ttt ggg atg cta agg aaa atg ggc 336
His Gly Thr Leu Pro Lys Leu Asn Phe Gly Met Leu Arg Lys Met Gly
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50 Leu Ser Pro Asp Pro Thr Ala Ala Phe Leu Leu Pro Pro Ser Thr Ala
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Cys Cys Thr Gln Leu Tyr Arg Lys Pro Leu Ser Asp Lys Leu Leu Arg
10 15 20

55 Lys Val Ile Gln Val Glu Leu Gln Glu Ala Asp Gly Asp Cys His Leu
25 30 35 40

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Gln Ala Phe Val Leu His Leu Ala Gln Arg Ser Ile Cys Ile His Pro
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5  Gln Asn Pro Ser Leu Ser Gln Trp Phe Glu His Gln Glu Arg Lys Leu
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His Gly Thr Leu Pro Lys Leu Asn Phe Gly Met Leu Arg Lys Met Gly
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    Leu Pro Leu Leu Leu Leu Leu Leu Ser Pro Ala Pro Glu Ala Ala Leu
    -15                      -10                      -5                      -1 1

35  cct ctg ccc tcc agc act agc tgc tgt act cag ctc tat aga cag cca 148
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40  ctc cca agc agg ctg ctg agg agg att gtc cac atg gaa ctg cag gag 196
    Leu Pro Ser Arg Leu Leu Arg Arg Ile Val His Met Glu Leu Gln Glu
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45  gcc gat ggg gac tgt cac ctc cag gct gtc gtg ctt cac ctg gct cgg 244
    Ala Asp Gly Asp Cys His Leu Gln Ala Val Val Leu His Leu Ala Arg
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50  cgc agt gtc tgt gtt cat ccc cag aac cgc agc ctg gct cgg tgg tta 292
    Arg Ser Val Cys Val His Pro Gln Asn Arg Ser Leu Ala Arg Trp Leu
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55  gaa cgc caa ggg aaa agg ctc caa ggg act gta ccc agt tta aat ctg 340
    Glu Arg Gln Gly Lys Arg Leu Gln Gly Thr Val Pro Ser Leu Asn Leu
        70                      75                      80

    gta cta caa aag aaa atg tac tca aac ccc caa cag caa aac 382
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 15 Ser Cys Cys Thr Gln Leu Tyr Arg Gln Pro Leu Pro Ser Arg Leu Leu  
 10 15 20  
 Arg Arg Ile Val His Met Glu Leu Gln Glu Ala Asp Gly Asp Cys His  
 25 30 35  
 20 Leu Gln Ala Val Val Leu His Leu Ala Arg Arg Ser Val Cys Val His  
 40 45 50 55  
 Pro Gln Asn Arg Ser Leu Ala Arg Trp Leu Glu Arg Gln Gly Lys Arg  
 60 65 70  
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 75 80 85  
 Tyr Ser Asn Pro Gln Gln Gln Asn  
 90 95  
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